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CLAIMS:

- 1. A water-soluble polyether glycol polymer which comprises: a structural backbone of carbon atoms and oxygen atoms where there are at least two consecutive carbon atoms present between each oxygen atom; a moiety on the backbone of the polymer or a functionalized derivative on the polymer, that is cationic at physiological pH and permits complexation with phosphate or oxalate; and an average molecular weight from about 5,000 to about 750,000 Daltons.
- 2. The polymer of Claim 1 which comprises an average molecular weight from about 10,000 to about 750,000 Daltons.
- 3. The polymer of Claim 2 which comprises an average molecular weight from about 12,000 to about 300,000 Daltons.
- 4. The polymer of Claim 2 which comprises an average molecular weight from about 15,000 to about 80,000 Daltons.
- 5. The polymer of Claim 1 wherein the polymer has been derivatized with functional groups.
- 6. The polymer of Claim 5 wherein the functional groups are either directly connected to the polymer backbone or connected through C_2 - C_6 alkylene or C_2 - C_6 alky- C_6 - C_{12} -aryl groups and are selected from halide, hydroxyl, sulfonate, phosphonate, nitro, amine, phosphine, carbonyl, carbamate, carboxylic and thio groups, or combinations of these groups.
 - 7. The polymer of Claim 6 wherein the polymer is a polyepihalohydrin derivative.
- 8. The polymer of Claim 7 wherein the polyepihalohydrin derivative has an average molecular weight of between about 15,000 to 80,000 Daltons.
- 9. The polymer of Claim 7 wherein the polyepihalohydrin derivative is polyepichlorohydrin amine.
 - 10. The polymer of Claim 9 wherein the derivative is a trimethylamine group.
 - 11. The polymer of Claim 9 wherein the derivative is a triethyleneamine group.
 - 12. The polymer of Claim 9 wherein the derivative is an ethylenediamine group.
 - 13. The polymer of Claim 9 wherein the derivative is a diethylenetriamine group.
- 14. The polymer of Claim 9 wherein the derivative is a tetraethylenepentamine group.
- 15. The polymer of Claim 9 wherein the derivative is a mixture of two or more amine groups.
- 16. The polymer of Claim 1 wherein the solubility of the polymer is at least 0.01 gram of the polymer per 1,000 mL of water.

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- 17. The polymer of Claim 16 wherein the solubility of the polymer is from 1 to 10 grams of polymer per 1 mL of water.
- 18. A formulation for oral administration which comprises a polymer of Claim 1 with a pharmaceutically-acceptable carrier.
- 19. The formulation of Claim 18 wherein the polymer is a polyepihalohydrin derivative.
- 20. A method for the reduction of phosphonate or oxalate *in vivo* in an animal which comprises administering an effective amount of a formulation of Claim 18.
 - 21. The method of Claim 20 wherein the formulation is of Claim 19.
- 22. The method of Claim 21 wherein the effective amount for reduction of phosphonate is from about 1 to about 15 grams per meal.
- 23. The method of Claim 21 wherein the effective amount for reduction of oxalate is from 0.6 to about 5 grams per meal.
- 24. A use of a polymer of Claim 1 as an agent for the reduction of phosphonate or oxalate *in vivo* in an animal.
- 25. A process for preparing the polymer of Claim 1 which comprises reacting an epihalohydrin, in the presence of a Lewis acid of moderate strength, in a solvent that will not act as a chain terminator.
 - 26. The process of Claim 25 wherein the solvent is dichloromethane.
- 27. A process for preparing the polymer of Claim 1 which comprises reacting a 3,4-dichloro-1,2-butane oxirane, in the presence of a Lewis acid of moderate strength, in a solvent that will not act as a chain terminator.
- 28. The process for preparing a polymer as defined in Claim 1 wherein a catalyst is present selected from triethyloxionium hexafluorophosphate, fluoboric acid, triethyl aluminum, and 1,2-ethyl di(trifluoromethanesulfonate).